



January 9, 2012

Illinois Environmental Protection Agency
Permit Section
Bureau of Land – #33
P.O. Box 19276
Springfield, Illinois 62794-9276

US EPA RECORDS CENTER REGION 5



468914

Re: 2018080001 – Winnebago County
Winnebago Reclamation Service
Northern and Southern Units
Fourth Quarter 2011 Potential Observed Increases

Dear Correspondent:

In accordance with the applicable conditions of the permit, a groundwater monitoring review has been conducted on the fourth quarter 2011 monitoring results. Parameters indicating "observed increases" from the Southern and Northern Units are listed in Tables 1 and 2, respectively.

The sample results from each unit well network have been reviewed pursuant to Condition VIII.13 of Permit No. 1991-138-LF, Modification No. 51. Confirmation sampling will be completed in accordance with Condition VIII.14 of the above referenced permit.

If you have any questions or require further information, please contact Mr. Tom Hilbert at (815) 963-7516. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read "Teresa N. Sharp".

Teresa N. Sharp
Environmental Scientist

TNS:tns:slm

Enclosures

cc: Tom Hilbert – Rock River Environmental Services
Bernie Schorle – US EPA Region 5



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
SOLID WASTE REPORTING FORM

This form must be used as a cover for the following list of notices and reports required by the Illinois EPA's Bureau of Land, Permit Section. All reports must be submitted to the Illinois EPA's Bureau of Land Permit Section. This form must be used for Solid Waste facilities only. Reporting for Hazardous Waste facilities should be submitted on a separate Hazardous Waste Reporting Form. All reports submitted to the Illinois EPA's Bureau of Land Permit Section must contain an original, plus a minimum of two copies.

Note: This form may NOT be used for any request to modify the permit, sampling or operating procedures. Modification requests must be submitted separately in the form of a permit application.

This form is not to be used with permit applications. Your permit will state whether the document you are submitting is required as a report or an application.

Facility Name: Site ID#:

Check one of the following, identifying the contents of your submittal:

- | | |
|---|---|
| <input type="checkbox"/> LPC-160 Forms | |
| <input type="checkbox"/> Quarterly Groundwater Data | <input type="checkbox"/> Semi-Annual Groundwater Data |
| <input type="checkbox"/> Quarterly Leachate Data | <input type="checkbox"/> Semi-Annual Leachate Data |
| <input type="checkbox"/> Annual Groundwater Data | <input type="checkbox"/> Biennial Groundwater Data |
| <input type="checkbox"/> Annual Leachate Data | <input type="checkbox"/> Biennial Leachate Data |
| <input type="checkbox"/> Annual Groundwater Flow Evaluation | <input type="checkbox"/> Well Survey Data |
| <input type="checkbox"/> Well Construction Forms and Boring Logs | <input type="checkbox"/> Well Abandonment Forms |
| <input checked="" type="checkbox"/> Notice of Observed Increase in Groundwater | |
| Notice of Intent to Perform Confirmation Procedures (Re-sampling) in Groundwater | |
| <input type="checkbox"/> Notice of Confirmed Increase of Groundwater Exceedence from Re-sample | |
| <input type="checkbox"/> Notice of Methane Exceedences | |
| <input type="checkbox"/> Annual Facility Report (per 35 Ill. Adm. Code 813.504) and Gas Monitoring Report | |
| <input type="checkbox"/> Annual Certifications per 35 Ill. Adm. Code 813.501 | |
| <input type="checkbox"/> Other (identify): Not to be used for Permit Applications | |

Table 1
Winnebago Landfill - South Unit
Fourth Quarter 2011 Observed Exceedences

| <i>Parameter</i> | <i>Units</i> | <i>4thQtr11</i> | <i>AGQS</i> | <i>Notes</i> |
|--------------------------|--------------|-----------------|-------------|--------------|
| G22D - Upgradient | | | | |
| # Chloride, Dissolved | mg/l | 300 | 200 | |
| R25D | | | | |
| Arsenic, Dissolved | ug/l | 5.7 | 3.801 | |
| # Chloride, Dissolved | mg/l | 440 | 200 | |

Note:

** indicates exceedence has previously been addressed and approved by either Permit Modification No. 46 or 51.

data is currently being collected in order to revise the interwell value for dissolved chloride in accordance with Permit Condition VIII.26.

Table 2
Winnebago Reclamation Service - North Unit
Fourth Quarter 2011 Observed Exceedences

| Parameter | Units | 4thQtr11 | AGQS | Notes |
|--------------------------------|--------------|-----------------|-------------|--------------------------------|
| G09D - Upgradient | | | | |
| ** Benzene | ug/l | 2.5 | 2.8 | Exceeds Preceding (below AGQS) |
| G09M - Upgradient | | | | |
| ** Benzene | ug/l | 2.7 | 2.8 | Exceeds Preceding (below AGQS) |
| ** Chlorobenzene | ug/l | 6.6 | 5 | |
| # Specific Conductance (field) | umhos | 3340 | 2386.55 | |
| G13D - Upgradient | | | | |
| Benzene | ug/l | 3.7 | 2.8 | |
| ** Chlorobenzene | ug/l | 14 | 5 | |
| # Specific Conductance (field) | umhos | 2890 | 2386.55 | |
| G13S - Upgradient | | | | |
| ** Benzene | ug/l | 4.7 | 2.8 | |
| ** Chlorobenzene | ug/l | 29 | 5 | |
| G20D - Upgradient | | | | |
| ** 1,1-Dichloroethane | ug/l | 2 | 31 | Exceeds Preceding (below AGQS) |
| ** cis-1,2-Dichloroethene | ug/l | 7.1 | 5 | |
| G16D | | | | |
| pH (field) | units | 8.17 | 5.4 - 8.1 | |
| G33D | | | | |
| pH (field) | units | 8.48 | 5.4 - 8.1 | |
| G33S | | | | |
| pH (field) | units | 8.16 | 5.4 - 8.1 | |
| G34S | | | | |
| pH (field) | units | 8.29 | 5.4 - 8.1 | |
| G52S | | | | |
| Lead, Dissolved | ug/L | 17 | 4 | |
| Magnesium, dissolved | mg/L | 200 | 170.41 | |
| pH (field) | units | 8.41 | 5.4 - 8.1 | |

* indicates GMZ parameter

** indicates exceedence has previously been addressed and approved by either Permit Modification No. 46 or 51.

indicates exceedence is currently being addressed in pending Application Log No. 2011-451.